

[illegible]

[illegible]

Seq# 003

Line Name: MGL15102836

Line Brg : 304.4 °

NAVIGATION

LINE LOGS

DATE: 2015-06-03

JULIAN DAY: 154

Lamont-Doherty Earth Observatory

COLUMBIA UNIVERSITY | EARTH INSTITUTE

CLIENT: Greg Mountain

SURVEY: 3D - NJ

AREA: Offshore New Jersey

DC SOL : -25.4 m

DC EOL : -12.9 m

BSP SOL: 4.4 kts

BSP EOL: 4.4 kts

WEATHER

WIND SOL: E 18 kts

WIND EOL: E 15 kts

SEAS SOL: 1.0 m

SEAS EOL: <1.0

DEPTH SOL : 55.0 m

DEPTH EOL : 28.5 m

FEATHER SOL: 52.4 °

FEATHER EOL: 03.8 °

MAX FEATHER: 52.4 °

NAVIGATION SYSTEM USED: C-Nav3050 - Primary

NAVIGATION SYSTEM USED: SeaPath 200

NAVIGATION SYSTEM USED: POSMV

GRAVITY METER: BMG-II: used, SN210

MAGNETOMETER: GeoMetrics: used

shift hours

shift leaders

shift hours

watch personnel

shift hours

watch personnel

shift hours

watch personnel

16:00 – 04:00 utc => A. Thompson

16:00 – 20:00 utc > Baldwin, Johnson

20:00 – 24:00 utc > Kucuk, Stanley

00:00 – 04:00 utc > Bhatnagar, Newton

04:00 – 16:00 utc => S. Traceski

04:00 – 08:00 utc > Baldwin, Johnson

08:00 – 12:00 utc > Kucuk, Stanley

12:00 – 16:00 utc > Bhatnagar, Newton

SP

UTC

EVENT

COMMENTS

876

19:34

SOL

start of 3D acquisition using NavPoint and GeoEel

881

19:34

SOL

SOL spectra and syntrak

3937

00:00

Midnight

5137

01:48

EOL

End of line

FSP

LSP

Shotpoints

Latitude (N / +)

Longitude (W / -)

881

39° 25' 51.037"

-73° 07' 59.050"

5137

39° 42' 31.494"

-73° 38' 15.217"

NAVIGATION OFFSET APPLIED

NRP - Stern

29.5m

NRP – COS

300.0m

NRP – CNG

531.50m

COS – CNG

231.50m

NRP – CMP

415.75m

Posnet locations & remarks: good - none - intermittent

acoustics

Tailbuoy #1

GOOD

Gun string #1

Good

Tailbuoy #2

none

Gun string #2

none

Tailbuoy #3

none

Gun string #3

none

Tailbuoy #4

none

Gun string #4

none

OPERATIONAL

MGL1307.LMN

mgl2010.RTCN

SP spacing: 12.5m

line status: Complete

Seq# 004

Line Name: MGL15101900

Line Brg : 124.4 °

NAVIGATION

LINE LOGS

DATE: 2015-06-04

JULIAN DAY: 155

Lamont-Doherty Earth Observatory

COLUMBIA UNIVERSITY | EARTH INSTITUTE

CLIENT: Greg Mountain

SURVEY: 3D - NJ

AREA: Offshore New Jersey

DC SOL : 23.6 m

DC EOL : -10.3 m

BSP SOL: 4.7 kts

BSP EOL: 4.6 kts

WEATHER

WIND SOL: ENE 20 kts

WIND EOL: ENE 19.5 kts

SEAS SOL: <1.0

SEAS EOL: <1.0

DEPTH SOL : 23.6 m

DEPTH EOL : 37.3 m

FEATHER SOL: -42.7 °

FEATHER EOL: 01.3 °

MAX FEATHER: -42.7 °

NAVIGATION SYSTEM USED: C-Nav3050 - Primary

NAVIGATION SYSTEM USED: SeaPath 200

NAVIGATION SYSTEM USED: POSMV

GRAVITY METER: BMG-II: used, SN210

MAGNETOMETER: GeoMetrics: used

shift hours

shift leaders

shift hours

watch personnel

shift hours

watch personnel

shift hours

watch personnel

16:00 – 04:00 utc => A. Thompson

16:00 – 20:00 utc > Baldwin, Johnson

20:00 – 24:00 utc > Kucuk, Stanley

00:00 – 04:00 utc > Bhatnagar, Newton

04:00 – 16:00 utc => S. Traceski

04:00 – 08:00 utc > Baldwin, Johnson

08:00 – 12:00 utc > Kucuk, Stanley

12:00 – 16:00 utc > Bhatnagar, Newton

SP

UTC

EVENT

COMMENTS

5111

02:58

SOL

start of 3D acquisition using NavPoint and GeoEel

5108

02:59

SOL

SOL spectra and syntrak

4753

03:29

BIST

EM 122 offline for BIST

3989

04:37

EOL

LGSP 3989 EEOL Due to port vane GPS failure - loss of both port side P-cable GPS systems

3828

04:51

LSP

Line terminated to recover port tri-point float and port paravane to repair GPS

FSP

LSP

VESEL POSITION

Shotpoints

Latitude (N / +)

Longitude (W / -)

5108

39° 39' 49.524"

-73° 40' 24.817"

3989

39° 35' 28.350"

-73° 32' 25.157"

NAVIGATION OFFSET APPLIED

NRP - Stern

29.5m

NRP – COS

300.0m

NRP – CNG

531.50m

COS – CNG

231.50m

NRP – CMP

415.75m

Posnet locations & remarks: good - none - intermittent

acoustics

Tailbuoy #1

GOOD

Gun string #1

Good

Tailbuoy #2

none

Gun string #2

none

Tailbuoy #3

none

Gun string #3

none

Tailbuoy #4

none

Gun string #4

none

OPERATIONAL

MGL1307.LMN

mgl2010.RTCN

SP spacing: 12.5m

line status: incomplete

[illegible]

Seq# 006

Line Name: MGL15101900R

Line Brg : 124.4 °

NAVIGATION

LINE LOGS

DATE: 2015-06-05

JULIAN DAY: 156

Lamont-Doherty Earth Observatory

COLUMBIA UNIVERSITY | EARTH INSTITUTE

CLIENT: Greg Mountain

SURVEY: 3D - NJ

AREA: Offshore New Jersey

DC SOL : 14.2 m

DC EOL : 56.6 m

BSP SOL: 4.4 kts

BSP EOL: 4.4 kts

WEATHER

WIND SOL: ENE24 kts

WIND EOL: ENE21.3 kts

SEAS SOL: 1.5 m

SEAS EOL: 2.0m

DEPTH SOL : 24.4 m

DEPTH EOL : 54.1 m

FEATHER SOL: -34.1 °

FEATHER EOL: 03.2 °

MAX FEATHER: -34.1 °

NAVIGATION SYSTEM USED: C-Nav3050 - Primary

NAVIGATION SYSTEM USED: SeaPath 200

NAVIGATION SYSTEM USED: POSMV

GRAVITY METER: BMG-II: used, SN210

MAGNETOMETER: GeoMetrics: used

shift hours

shift leaders

shift hours

watch personnel

shift hours

watch personnel

shift hours

watch personnel

16:00 – 04:00 utc => A. Thompson

16:00 – 20:00 utc > Baldwin, Johnson

20:00 – 24:00 utc > Kucuk, Stanley

00:00 – 04:00 utc > Bhatnagar, Newton

04:00 – 16:00 utc => S. Traceski

04:00 – 08:00 utc > Baldwin, Johnson

08:00 – 12:00 utc > Kucuk, Stanley

12:00 – 16:00 utc > Bhatnagar, Newton

SP

UTC

EVENT

COMMENTS

5110

01:07

SOL/infill

start of 3D acquisition using NavPoint, GeoEel, Spectra, and Syntax

4100

02:40

Airguns

Stbd compressor failure

4090

02:41

Airguns

firing mitigation gun only

4068

02:43

Airguns

port compressor online - firing full array

3989

02:51

Last Infill SP

3988

02:51

Reshoot

First Reshoot shot point

3828

03:05

Reshoot

Last Reshoot shot point

3827

03:06

Prime

First prime/new data

3616

03:24

Posnet

Posnet crash

3533

03:31

Posnet

Posnet restarted

865

07:29

EOL

End of line

FSP

LSP

Shotpoints

Latitude (N / +)

Longitude (W / -)

5110

39° 39' 50.236"

-73° 40' 25.456"

865

39° 23' 12.156"

-73° 10' 15.307"

NAVIGATION OFFSET APPLIED

NRP - Stern

29.5m

NRP – COS

300.0m

NRP – CNG

531.50m

COS – CNG

231.50m

NRP – CMP

415.75m

Posnet locations & remarks: good - none - intermittent

acoustics

Tailbuoy #1

GOOD

Gun string #1

Good

Tailbuoy #2

none

Gun string #2

none

Tailbuoy #3

none

Gun string #3

none

Tailbuoy #4

none

Gun string #4

none

OPERATIONAL

MGL1307.LMN

mg12010.RTCN

SP spacing: 12.5m

line status: incomplete

[illegible]

Seq# 008

Line Name: MGL15101876

Line Brg : 124.4 °

NAVIGATION

LINE LOGS

DATE: 2015-06-05

JULIAN DAY: 156

Lamont-Doherty Earth Observatory

COLUMBIA UNIVERSITY | EARTH INSTITUTE

CLIENT: Greg Mountain

SURVEY: 3D - NJ

AREA: Offshore New Jersey

DC SOL : -1.7 m

DC EOL : 9.8 m

BSP SOL: 4.6 kts

BSP EOL: 4.2 kts

WEATHER

WIND SOL: NE18

WIND EOL: NNE 15 kts

SEAS SOL: 1.0

SEAS EOL: 1.0 m

DEPTH SOL : 23.1 m

DEPTH EOL : 52.8 m

FEATHER SOL: -42.5 °

FEATHER EOL: 02.5 °

MAX FEATHER: -44.7 °

NAVIGATION SYSTEM USED: C-Nav3050 - Primary

NAVIGATION SYSTEM USED: SeaPath 200

NAVIGATION SYSTEM USED: POSMV

GRAVITY METER: BMG-II: used, SN210

MAGNETOMETER: GeoMetrics: used

shift hours

shift leaders

shift hours

watch personnel

shift hours

watch personnel

shift hours

watch personnel

16:00 – 04:00 utc => A. Thompson

16:00 – 20:00 utc > Baldwin, Johnson

20:00 – 24:00 utc > Kucuk, Stanley

00:00 – 04:00 utc > Bhatnagar, Newton

04:00 – 16:00 utc => S. Traceski

04:00 – 08:00 utc > Baldwin, Johnson

08:00 – 12:00 utc > Kucuk, Stanley

12:00 – 16:00 utc > Bhatnagar, Newton

SP

UTC

EVENT

COMMENTS

5109

16:03

SOL

start of 3D acquisition using NavPoint, GeoEel, Spectra, and Syntax

4641

16:45

Crossing

Vessel crossing Exp 313 borehole station #27

3616

18:15

Crossing

Vessel crossing Exp 313 borehole station #28

2908

19:18

Crossing

Vessel Crossing Exp 313 borehole station #29

2879

19:20

XBT

XBT T7

FSP

LSP

Shotpoints

Latitude (N / +)

Longitude (W / -)

5109

39° 39' 46.443"

-73° 40' 28.277"

865

39° 23' 09.433"

-73° 10' 17.820"

NAVIGATION OFFSET APPLIED

NRP - Stern

29.5m

NRP – COS

300.0m

NRP – CNG

531.50m

COS – CNG

231.50m

NRP – CMP

415.75m

865

22:28

EOL

Posnet locations & remarks: good - none - intermittent

acoustics

Tailbuoy #1

GOOD

Gun string #1

Good

Tailbuoy #2

none

Gun string #2

none

Tailbuoy #3

none

Gun string #3

none

Tailbuoy #4

none

Gun string #4

none

OPERATIONAL

MGL1307.LMN

mgl2010.RTCN

SP spacing: 12.5m

line status:

incomplete

Seq# 009

Line Name: MGL15102764

Line Brg : 304.4 °

NAVIGATION

LINE LOGS

DATE: 2015-06-05

JULIAN DAY: 156

Lamont-Doherty Earth Observatory

COLUMBIA UNIVERSITY | EARTH INSTITUTE

CLIENT: Greg Mountain

SURVEY: 3D - NJ

AREA: Offshore New Jersey

DC SOL : 2.5 m

DC EOL : 1.8 m

BSP SOL: 4.8 kts

BSP EOL: 3.9 kts

WEATHER

WIND SOL: NE13

WIND EOL: N9 kts

SEAS SOL: 1.0

SEAS EOL: 1.0 m

DEPTH SOL : 53.4 m

DEPTH EOL : 31.2 m

FEATHER SOL: -56.1 °

FEATHER EOL: 00.7 °

MAX FEATHER: -56.1 °

NAVIGATION SYSTEM USED: C-Nav3050 - Primary

NAVIGATION SYSTEM USED: SeaPath 200

NAVIGATION SYSTEM USED: POSMV

GRAVITY METER: BMG-II: used, SN210

MAGNETOMETER: GeoMetrics: used

shift hours

shift leaders

shift hours

watch personnel

shift hours

watch personnel

shift hours

watch personnel

16:00 – 04:00 utc => A. Thompson

16:00 – 20:00 utc > Baldwin, Johnson

20:00 – 24:00 utc > Kucuk, Stanley

00:00 – 04:00 utc > Bhatnagar, Newton

04:00 – 16:00 utc => S. Traceski

04:00 – 08:00 utc > Baldwin, Johnson

08:00 – 12:00 utc > Kucuk, Stanley

12:00 – 16:00 utc > Bhatnagar, Newton

SP

UTC

EVENT

COMMENTS

884

23:36

SOL

start of 3D acquisition using NavPoint, GeoEel, Spectra, and Syntax

1160

00:00

Midnight

2923

02:33

LGSP

Last good shot before gun fail

2924

02:33

Airguns

Gun 1-4 failing, appears to have airleak.

3311

03:11

EOL

End of line to pick up guns

FSP

LSP

Shotpoints

Latitude (N / +)

Longitude (W / -)

884

39° 25' 40.613"

-73° 08' 10.604"

3311

39° 35' 13.706"

-73° 35' 13.706"

NAVIGATION OFFSET APPLIED

NRP - Stern

29.5m

NRP – COS

300.0m

NRP – CNG

531.50m

COS – CNG

231.50m

NRP – CMP

415.75m

Posnet locations & remarks: good - none - intermittent

acoustics

Tailbuoy #1

GOOD

Gun string #1

Good

OPERATIONAL

Tailbuoy #2

none

Gun string #2

none

Tailbuoy #3

none

Gun string #3

none

Tailbuoy #4

none

Gun string #4

none

MGL1307.LMN

mgl2010.RTCN

SP spacing: 12.5m

line status: incomplete

[illegible]

[illegible]

Seq# 012

Line Name: MGL15101828

Line Brg : 124 °

NAVIGATION

LINE LOGS

DATE: 2015-06-07

JULIAN DAY: 158

Lamont-Doherty Earth Observatory

COLUMBIA UNIVERSITY | EARTH INSTITUTE

CLIENT: Greg Mountain

SURVEY: 3D - NJ

AREA: Offshore New Jersey

DC SOL : -3.7 m

DC EOL : -28.9 m

BSP SOL: 4.6 kts

BSP EOL: 4.1 kts

WEATHER

WIND SOL: 9.1 NE kts

WIND EOL: 10.1NE kts

SEAS SOL: 0-1 m

SEAS EOL: 0.5-1 m

DEPTH SOL : 22.8 m

DEPTH EOL : 53.0 m

FEATHER SOL: 48.4 °

FEATHER EOL: 03.1 °

MAX FEATHER: 48.4 °

NAVIGATION SYSTEM USED: C-Nav3050 - Primary

NAVIGATION SYSTEM USED: SeaPath 200

NAVIGATION SYSTEM USED: POSMV

GRAVITY METER: BMG-II: used, SN210

MAGNETOMETER: GeoMetrics: used

shift hours

shift leaders

shift hours

watch personnel

shift hours

watch personnel

shift hours

watch personnel

16:00 – 04:00 utc => A. Thompson

16:00 – 20:00 utc > Baldwin, Johnson

20:00 – 24:00 utc > Kucuk, Stanley

00:00 – 04:00 utc > Bhatnagar, Newton

04:00 – 16:00 utc => S. Traceski

04:00 – 08:00 utc > Baldwin, Johnson

08:00 – 12:00 utc > Kucuk, Stanley

12:00 – 16:00 utc > Bhatnagar, Newton

SP	UTC	EVENT	COMMENTS
5128	05:04	SOL	start of 3D acquisition using NavPoint, GeoEel, Spectra, and Syntax
2820	08:27	Offline	Steering offline to port to avoid sailing vessel
2720	08:37	Offline	Heading back to line max DC -201.1
865	11:26	EOL	end of line

VESEL POSITION

Shotpoints	Latitude (N / +)	Longitude (W / -)
5128	39° 39' 42.998"	-73° 40' 43.632"
865	39° 23' 02.541"	-73° 10' 24.184"

NAVIGATION OFFSET APPLIED

NRP - Stern	29.5m
NRP – COS	300.0m
NRP – CNG	531.50m
COS – CNG	231.50m
NRP – CMP	415.75m

Posnet locations & remarks: good - none - intermittent

acoustics

Tailbuoy #1	GOOD	Gun string #1	GOOD
Tailbuoy #2	none	Gun string #2	none
Tailbuoy #3	none	Gun string #3	none
Tailbuoy #4	none	Gun string #4	none

OPERATIONAL

MGL1307.LMN

mg12010.RTCN

SP spacing: 12.5m

line status: Complete

[illegible]

[illegible]

Seq# 015

Line Name: MGL15102692

Line Brg : 304 °

NAVIGATION

LINE LOGS

DATE: 2015-06-08

JULIAN DAY: 159

Lamont-Doherty Earth Observatory

COLUMBIA UNIVERSITY | EARTH INSTITUTE

CLIENT: Greg Mountain

SURVEY: 3D - NJ

AREA: Offshore New Jersey

DC SOL : -4.5 m

DC EOL : -6.8 m

BSP SOL: 4.4 kts

BSP EOL: 3.8 kts

WEATHER

WIND SOL: SE 5 kts

WIND EOL: S 12.5 kts

SEAS SOL: 0.5 m

SEAS EOL: 0.5-1 m

DEPTH SOL : 53.6 m

DEPTH EOL : 26.3 m

FEATHER SOL: -54.2 °

FEATHER EOL: 02.2 °

MAX FEATHER: -54.2 °

NAVIGATION SYSTEM USED: C-Nav3050 - Primary

NAVIGATION SYSTEM USED: SeaPath 200

NAVIGATION SYSTEM USED: POSMV

GRAVITY METER: BMG-II: used, SN210

MAGNETOMETER: GeoMetrics: used

shift hours

shift leaders

shift hours

watch personnel

shift hours

watch personnel

shift hours

watch personnel

16:00 – 04:00 utc => A. Thompson

16:00 – 20:00 utc > Baldwin, Johnson

20:00 – 24:00 utc > Kucuk, Stanley

00:00 – 04:00 utc > Bhatnagar, Newton

04:00 – 16:00 utc => S. Traceski

04:00 – 08:00 utc > Baldwin, Johnson

08:00 – 12:00 utc > Kucuk, Stanley

12:00 – 16:00 utc > Bhatnagar, Newton

SP

UTC

EVENT

COMMENTS

866

03:30

SOL

start of 3D acquisition using NavPoint, GeoEel, Spectra, and Syntax

2773

07:34

STREAMER

P-cable started losing channels

2987

07:52

STREAMER

P-cable Nav ends

3194

08:09

EOL

end of line early - line incomplete

FSP

LSP

Shotpoints

Latitude (N / +)

Longitude (W / -)

866

39° 25' 34.315"

-73° 08' 14.076"

3194

39° 34' 21.657"

-73° 24' 26.632"

NAVIGATION OFFSET APPLIED

NRP - Stern

29.5m

NRP – COS

300.0m

NRP – CNG

531.50m

COS – CNG

231.50m

NRP – CMP

415.75m

Posnet locations & remarks: good - none - intermittent

acoustics

Tailbuoy #1

GOOD

Gun string #1

GOOD

OPERATIONAL

Tailbuoy #2

none

Gun string #2

none

Tailbuoy #3

none

Gun string #3

none

Tailbuoy #4

none

Gun string #4

none

MGL1307.LMN

mgl2010.RTCN

SP spacing: 12.5m

line status:

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Seq# 022

Line Name: MGL15102596

Line Brg : 304.4 °

NAVIGATION

LINE LOGS

DATE: 2015-06-10

JULIAN DAY: 161

Lamont-Doherty Earth Observatory

COLUMBIA UNIVERSITY | EARTH INSTITUTE

CLIENT: Greg Mountain

SURVEY: 3D - NJ

AREA: Offshore New Jersey

DC SOL : 24.5 m

DC EOL : 2.4 m

BSP SOL: 4.2 kts

BSP EOL: 4.3 kts

WEATHER

WIND SOL: SW5.3 kts

WIND EOL: SW18 kts

SEAS SOL: 0.5 m

SEAS EOL: 0.5 m

DEPTH SOL : 56.1 m

DEPTH EOL : 25.7 m

FEATHER SOL: -45.3 °

FEATHER EOL: -03.6 °

MAX FEATHER: -45.3 °

NAVIGATION SYSTEM USED: C-Nav3050 - Primary

NAVIGATION SYSTEM USED: SeaPath 200

NAVIGATION SYSTEM USED: POSMV

GRAVITY METER: BMG-II: used, SN210

MAGNETOMETER: GeoMetrics: used

shift hours

shift leaders

shift hours

watch personnel

shift hours

watch personnel

shift hours

watch personnel

16:00 – 04:00 utc => A. Thompson

16:00 – 20:00 utc > Baldwin, Johnson

20:00 – 24:00 utc > Kucuk, Stanley

00:00 – 04:00 utc > Bhatnagar, Newton

04:00 – 16:00 utc => S. Traceski

04:00 – 08:00 utc > Baldwin, Johnson

08:00 – 12:00 utc > Kucuk, Stanley

12:00 – 16:00 utc > Bhatnagar, Newton

SP

UTC

EVENT

COMMENTS

879

18:21

SOL

start of 3D acquisition using NavPoint, Spectra, Syntrak, and Geo Eel

1764

19:47

MMO

Last Shot Point at Full Power Before Powering Down for Sea Turtle Sighting

1765

19:47

MMO

Mitigation Gun

1823

19:53

MMO

Return to Full Power

4438

00:00

Midnight

5137

01:06

EOL

End of line

FSP

LSP

Shotpoints

Latitude (N / +)

Longitude (W / -)

879

39° 25' 12.319"

-73° 08' 33.490"

5137

39° 41' 52.168"

-73° 38' 51.200"

NAVIGATION OFFSET APPLIED

NRP - Stern

29.5m

NRP – COS

300.0m

NRP – CNG

531.50m

COS – CNG

231.50m

NRP – CMP

415.75m

Posnet locations & remarks: good - none - intermittent

acoustics

Tailbuoy #1

GOOD

Gun string #1

GOOD

OPERATIONAL

Tailbuoy #2

none

Gun string #2

none

Tailbuoy #3

none

Gun string #3

none

Tailbuoy #4

none

Gun string #4

none

MGL1307.LMN

mgl2010.RTCN

SP spacing: 12.5m

line status: Complete

[illegible]

Seq# 024

Line Name: MGL15102668R


Line Brg : 304 °

NAVIGATION

LINE LOGS

DATE: 2015-06-11

JULIAN DAY: 162



CLIENT: Greg Mountain

SURVEY: 3D - NJ

AREA: Offshore New Jersey

DC SOL : 4.3 m

DC EOL : 623.1 m

BSP SOL: 3.9 kts

BSP EOL: 4.4 kts

WEATHER

WIND SOL: S 16.4 kts

WIND EOL: S 20 kts

SEAS SOL: 0.5 m

SEAS EOL: 1.0 m

DEPTH SOL : 36.1 m

DEPTH EOL : 27.6 m

FEATHER SOL: -03.1 °

FEATHER EOL: 01.6 °

MAX FEATHER: -07.8 °

NAVIGATION SYSTEM USED: C-Nav3050 - Primary

NAVIGATION SYSTEM USED: SeaPath 200

NAVIGATION SYSTEM USED: POSMV

GRAVITY METER: BMG-II: used, SN210

MAGNETOMETER: GeoMetrics: used

shift hours

shift leaders

shift hours

watch personnel

shift hours

watch personnel

shift hours

watch personnel

16:00 – 04:00 utc => A. Thompson

16:00 – 20:00 utc > Baldwin, Johnson

20:00 – 24:00 utc > Kucuk, Stanley

00:00 – 04:00 utc > Bhatnagar, Newton

04:00 – 16:00 utc => S. Traceski

04:00 – 08:00 utc > Baldwin, Johnson

08:00 – 12:00 utc > Kucuk, Stanley

12:00 – 16:00 utc > Bhatnagar, Newton

SP

UTC

EVENT

COMMENTS

1503

14:51

SOL

start of 3D acquisition using NavPoint, Spectra, Syntrak, and Geo Eel

1574

14:57

Infill

End of Infill line 2668

1575

14:57

Reshoot

start of reshoot line 2668

1812

15:17

Reshoot

End of reshoot line 2668

1813

15:18

Infill

start of infill line 2668

2059

15:39

Infill

End of Infill line 2668

260

15:39

Reshoot

start of reshoot line 2716

2125

15:44

Reshoot

end of reshoot line 2716

2126

15:44

Infill

start of infill line 2716

2923

16:55

Infill

end of infill line 2716

2924

16:55

Reshoot

start of reshoot line 2764

3311

17:29

Reshoot

end of reshoot line 2764

3312

17:29

Prime

start of prime line 2764

5137

20:14

EOL

End of prime line / EOL line 2764

FSP

LSP

Shotpoints

Latitude (N / +)

Longitude (W / -)

1503

39° 27' 50.540"

-73° 12' 42.999"

5137

39° 42' 20.528"

-73° 38' 25.249"

NAVIGATION OFFSET APPLIED

NRP - Stern

29.5m

NRP – COS

300.0m

NRP – CNG

531.50m

COS – CNG

231.50m

NRP – CMP

415.75m

Posnet locations & remarks: good - none - intermittent

acoustics

Tailbuoy #1

GOOD

Gun string #1

GOOD

Tailbuoy #2

none

Gun string #2

none

Tailbuoy #3

none

Gun string #3

none

Tailbuoy #4

none

Gun string #4

none

OPERATIONAL

MGL1307.LMN

mg12010.RTCN

SP spacing: 12.5m

line status: Complete

[illegible]

Seq# 026

Line Name: MGL15102860R

Line Brg : 304 °

NAVIGATION

LINE LOGS

DATE: 2015-06-12

JULIAN DAY: 163

Lamont-Doherty Earth Observatory

COLUMBIA UNIVERSITY | EARTH INSTITUTE

CLIENT: Greg Mountain

SURVEY: 3D - NJ

AREA: Offshore New Jersey

DC SOL : 2.4 m

DC EOL : -6.5 m

BSP SOL: 4.5 kts

BSP EOL: 4.1 kts

WEATHER

WIND SOL: SW 14.4 kts

WIND EOL: SW 8.1 kts

SEAS SOL: 0.5-1

SEAS EOL: 0.5 m

DEPTH SOL : 58.3 m

DEPTH EOL : 27.2 m

FEATHER SOL: 21.2 °

FEATHER EOL: -00.8 °

MAX FEATHER: -21.2 °

NAVIGATION SYSTEM USED: C-Nav3050 - Primary

NAVIGATION SYSTEM USED: SeaPath 200

NAVIGATION SYSTEM USED: POSMV

GRAVITY METER: BMG-II: used, SN210

MAGNETOMETER: GeoMetrics: used

shift hours

shift leaders

shift hours

watch personnel

shift hours

watch personnel

shift hours

watch personnel

16:00 – 04:00 utc => A. Thompson

16:00 – 20:00 utc > Baldwin, Johnson

20:00 – 24:00 utc > Kucuk, Stanley

00:00 – 04:00 utc > Bhatnagar, Newton

04:00 – 16:00 utc => S. Traceski

04:00 – 08:00 utc > Baldwin, Johnson

08:00 – 12:00 utc > Kucuk, Stanley

12:00 – 16:00 utc > Bhatnagar, Newton

SP

UTC

EVENT

COMMENTS

854

05:48

SOL

start of 3D acquisition using NavPoint, GeoEel, Spectra, and Syntrak

1222

06:20

airguns

Lost compressor, going to 40ci mitigation gun

1284

06:26

airguns

Full volume 700 ci

2403

08:05

airguns

on full power, power down to 40ci0-60 seconds cycle to switch off portside compressor

2535

08:26

airguns

back at 700 ci

5137

12:17

EOL

end of line

FSP

LSP

Shotpoints

Latitude (N / +)

Longitude (W / -)

854

39° 25' 49.352"

-73° 07' 43.252"

5137

39° 42' 35.630"

-73° 38' 11.423"

NAVIGATION OFFSET APPLIED

NRP - Stern

29.5m

NRP – COS

300.0m

NRP – CNG

531.50m

COS – CNG

231.50m

NRP – CMP

415.75m

Posnet locations & remarks: good - none - intermittent

acoustics

Tailbuoy #1

GOOD

Gun string #1

GOOD

OPERATIONAL

Tailbuoy #2

none

Gun string #2

none

Tailbuoy #3

none

Gun string #3

none

Tailbuoy #4

none

Gun string #4

none

MGL1307.LMN

mgl2010.RTCN

SP spacing: 12.5m

line status: Complete

[illegible]

[illegible]

Seq# 030

Line Name: MGL15102692R

Line Brg : 304 °

NAVIGATION

LINE LOGS

DATE: 2015-06-13

JULIAN DAY: 164

Lamont-Doherty Earth Observatory

COLUMBIA UNIVERSITY | EARTH INSTITUTE

CLIENT: Greg Mountain

SURVEY: 3D - NJ

AREA: Offshore New Jersey

DC SOL : 26.7 m

DC EOL : 27.9 m

BSP SOL: 4.1 kts

BSP EOL: 4.4 kts

WEATHER

WIND SOL: W 13.8 kts

WIND EOL: N13 kts

SEAS SOL: 1.0 m

SEAS EOL: 0.5 m

DEPTH SOL : 36.2 m

DEPTH EOL : 26.5 m

FEATHER SOL: -42.0 °

FEATHER EOL: -03.5 °

MAX FEATHER: -42.0 °

NAVIGATION SYSTEM USED: C-Nav3050 - Primary

NAVIGATION SYSTEM USED: SeaPath 200

NAVIGATION SYSTEM USED: POSMV

GRAVITY METER: BMG-II: used, SN210

MAGNETOMETER: GeoMetrics: used

shift hours

shift leaders

shift hours

watch personnel

shift hours

watch personnel

shift hours

watch personnel

16:00 – 04:00 utc => A. Thompson

16:00 – 20:00 utc > Baldwin, Johnson

20:00 – 24:00 utc > Kucuk, Stanley

00:00 – 04:00 utc > Bhatnagar, Newton

04:00 – 16:00 utc => S. Traceski

04:00 – 08:00 utc > Baldwin, Johnson

08:00 – 12:00 utc > Kucuk, Stanley

12:00 – 16:00 utc > Bhatnagar, Newton

SP

UTC

EVENT

COMMENTS

1913

11:22

SOL/Infill

start of 3D acquisition using NavPoint, GeoEel, Spectra, and Syntrak

2655

12:37

XBT

XBT deployed and loaded to multibeam

2773

12:48

Infill

Infill complete

2774

12:48

Reshoot

Start of reshoot

3194

13:33

Reshoot

End of reshoot

3195

13:33

Prime

Start of prime shooting

3818

14:34

MMO

Powerdown for short-beaked dolphins

3821

14:34

GUNS

Mitigation gun on

4185

15:08

MMO

Full power

4625

15:49

MMO

Powerdown for whale sighting, last full volume shot point

5004

16:23

MMO

Return to Full Power, First SP at Full Power.

5137

16:35

EOL/Prime

EOL

FSP

LSP

Shotpoints

Latitude (N / +)

Longitude (W / -)

1913

39° 29' 31.632"

-73° 15' 38.364"

5137

39° 42' 08.744"

-73° 38' 36.052"

NAVIGATION OFFSET APPLIED

NRP - Stern

29.5m

NRP – COS

300.0m

NRP – CNG

531.50m

COS – CNG

231.50m

NRP – CMP

415.75m

Posnet locations & remarks: good - none - intermittent

acoustics

Tailbuoy #1

GOOD

Gun string #1

GOOD

Tailbuoy #2

none

Gun string #2

none

Tailbuoy #3

none

Gun string #3

none

Tailbuoy #4

none

Gun string #4

none

OPERATIONAL

MGL1307.LMN

mgl2010.RTCN

SP spacing: 12.5m

line status:

Complete

Seq# 031

Line Name: MGL15101684

Line Brg : 124.4 °

NAVIGATION

LINE LOGS

DATE: 2015-06-13

JULIAN DAY: 164

Lamont-Doherty Earth Observatory

COLUMBIA UNIVERSITY | EARTH INSTITUTE

CLIENT: Greg Mountain

SURVEY: 3D - NJ

AREA: Offshore New Jersey

DC SOL : -8.1 m

DC EOL : 0.0 m

BSP SOL: 4.4 kts

BSP EOL: 4.5 kts

WEATHER

WIND SOL: N14 kts

WIND EOL: E 8 kts

SEAS SOL: 0.5 m

SEAS EOL: 0.5 m

DEPTH SOL : 23.2 m

DEPTH EOL : 52.9 m

FEATHER SOL: -37.8 °

FEATHER EOL: -03.0 °

MAX FEATHER: -37.8 °

NAVIGATION SYSTEM USED: C-Nav3050 - Primary

NAVIGATION SYSTEM USED: SeaPath 200

NAVIGATION SYSTEM USED: POSMV

GRAVITY METER: BMG-II: used, SN210

MAGNETOMETER: GeoMetrics: used

shift hours

shift leaders

shift hours

watch personnel

shift hours

watch personnel

shift hours

watch personnel

16:00 – 04:00 utc => A. Thompson

16:00 – 20:00 utc > Baldwin, Johnson

20:00 – 24:00 utc > Kucuk, Stanley

00:00 – 04:00 utc > Bhatnagar, Newton

04:00 – 16:00 utc => S. Traceski

04:00 – 08:00 utc > Baldwin, Johnson

08:00 – 12:00 utc > Kucuk, Stanley

12:00 – 16:00 utc > Bhatnagar, Newton

SP

UTC

EVENT

COMMENTS

5125

17:48

SOL

start of 3D acquisition using NavPoint, GeoEel, Spectra, and Syntrak

1735

23:02

XBT

XBT T-7 Seq10

1085

00:00

Midnight

865

00:19

EOL

End of line

FSP

LSP

Shotpoints

Latitude (N / +)

Longitude (W / -)

5125

39° 39' 18.570"

-73° 41' 04.027"

865

39° 22' 38.040"

-73° 10' 46.749"

NAVIGATION OFFSET APPLIED

NRP - Stern

29.5m

NRP – COS

300.0m

NRP – CNG

531.50m

COS – CNG

231.50m

NRP – CMP

415.75m

Posnet locations & remarks: good - none - intermittent

acoustics

Tailbuoy #1

GOOD

Gun string #1

GOOD

OPERATIONAL

Tailbuoy #2

none

Gun string #2

none

Tailbuoy #3

none

Gun string #3

none

Tailbuoy #4

none

Gun string #4

none

MGL1307.LMN

mgl2010.RTCN

SP spacing: 12.5m

line status: Complete

[illegible]

[illegible]

Seq# 34

Line Name: MGL15102572R

Line Brg : 304.4 °

NAVIGATION

LINE LOGS

DATE: 2015-06-14

JULIAN DAY: 165

Lamont-Doherty Earth Observatory

COLUMBIA UNIVERSITY | EARTH INSTITUTE

CLIENT: Greg Mountain

SURVEY: 3D - NJ

AREA: Offshore New Jersey

DC SOL : -11.4 m

DC EOL : 738.7 m

BSP SOL: 3.5 kts

BSP EOL: 4.4 kts

WEATHER

WIND SOL: SE3.4 kts

WIND EOL: S 11.2 kts

SEAS SOL: 0.0 m

SEAS EOL: 0.0 m

DEPTH SOL : 52.8 m

DEPTH EOL : 27.0 m

FEATHER SOL: -31.1 °

FEATHER EOL: 02.9 °

MAX FEATHER: -31.1 °

NAVIGATION SYSTEM USED: C-Nav3050 - Primary

NAVIGATION SYSTEM USED: SeaPath 200

NAVIGATION SYSTEM USED: POSMV

GRAVITY METER: BMG-II: used, SN210

MAGNETOMETER: GeoMetrics: used

shift hours

shift leaders

shift hours

watch personnel

shift hours

watch personnel

shift hours

watch personnel

16:00 – 04:00 utc => A. Thompson

16:00 – 20:00 utc >

Baldwin, Johnson

20:00 – 24:00 utc >

Kucuk, Stanley

00:00 – 04:00 utc >

Bhatnagar, Newton

04:00 – 16:00 utc => S. Traceski

04:00 – 08:00 utc >

Baldwin, Johnson

08:00 – 12:00 utc >

Kucuk, Stanley

12:00 – 16:00 utc >

Bhatnagar, Newton

SP

UTC

EVENT

COMMENTS

961

16:45

SOL/reshoot

start of 3D acquisition using NavPoint, GeoEel, Spectra, and Syntak

1239

17:10

MMO

Power Down for Turtle, LSP at Full Volume

1240

17:10

Airguns

FSP with Mitigation Guns

1331

17:18

Airguns

Return to Full Volume (FSP at Full)

1435

17:27

MMO

Power Down for Turtle, LSP at Full Volume

1436

17:27

Airguns

FSP with Mitigation Guns

1581

17:40

Airguns

Return to Full Volume (FSP at Full)

1773

17:56

MMO

Power Down for Dolphins, LSP

1774

17:56

Airguns

FSP with Mitigation Guns

1918

18:09

Airguns

Return to Full Volume (FSP at Full)

18:30

Maneuvering

Slow down D/T Fishing Gear

18:44

Maneuvering

Returning to Normal Speed

2482

18:59

MMO

Power Down for Turtle, LSP at Full Volume

2483

18:59

Airguns

FSP with Mitigation Guns

2511

19:02

XBT

Deployed XBT-T7 Seq 11. Then loaded into EM122

2620

19:11

Airguns

Return to Full Volume (FSP at Full)

2774

19:24

Reshoot

End of reshoot line2572

2775

19:25

Infill

Start of infill line 2692

2864

19:32

MMO

Power Down for Turtle, LSP at Full Volume

2865

19:32

Airguns

FSP with Mitigation Guns

2922

19:38

Airguns

Return to Full Volume (FSP at Full)

3817

20:56

Infill

End of infill line 2692

3818

20:56

Reshoot

Start of reshoot line 2692

4184

21:28

Reshoot

End of reshoot line 2692

4185

21:28

Infill

start of infill line 2716

4268

21:35

Infill

End of infill line 2716

4269

21:35

Reshoot

Start of reshoot line 2716

4332

21:41

Reshoot

End of reshoot line 2716

4333

21:41

Infill

Start of infill line 2692

4625

22:06

Infill

End of infill line 2692

4626

22:06

Reshoot

Start of reshoot line 2692

5003

22:40

Reshoot

End of reshoot line 2692

5004

22:40

Infill

Start of infill line 2692

5137

22:52

EOL

end of line

VESEL POSITION

FSP

LSP

Shotpoints

Latitude (N / +)

Longitude (W / -)

961

39° 25' 26.761"

-73° 09' 12.874"

5137

39° 42' 07.699"

-73° 38' 37.002"

NAVIGATION OFFSET APPLIED

NRP - Stern

29.5m

NRP – COS

300.0m

NRP – CNG

531.50m

COS – CNG

231.50m

NRP – CMP

415.75m

Posnet locations & remarks: good - none - intermittent

acoustics

Tailbuoy #1

GOOD

Gun string #1

GOOD

Tailbuoy #2

none

Gun string #2

none

Tailbuoy #3

none

Gun string #3

none

Tailbuoy #4

none

Gun string #4

none

OPERATIONAL

MGL1307.LMN

mg12010.RTCN

SP spacing: 12.5m

line status: Complete

[illegible]

[illegible]

[illegible]

[illegible]

Line Name:		MGL15101588		NAVIGATION		DATE:		2015-06-16		Lamont-Doherty Earth Observatory	
Line Brg :		124.4 °		LINE LOGS		JULIAN DAY:		167		COLUMBIA UNIVERSITY EARTH INSTITUTE	
CLIENT: Greg Mountain				SURVEY: 3D - NJ				AREA: Offshore New Jersey			
DC SOL : 36.9 m		DEPTH SOL : 21.9 m		NAVIGATION SYSTEM USED: C-Nav3050 - Primary							
DC EOL : -5.8 m		DEPTH EOL : 54.1 m		NAVIGATION SYSTEM USED: SeaPath 200							
BSP SOL: 4.3 kts		FEATHER SOL: -42.9 °		NAVIGATION SYSTEM USED: POSMV							
BSP EOL: 4.5 kts		FEATHER EOL: 00.7 °		GRAVITY METER: BMG-II: used, SN210							
WEATHER		MAX FEATHER: -42.9 °		MAGNETOMETER: GeoMetrics: used							
WIND SOL: 13.8 N kts											
WIND EOL: 0.7N kts											
SEAS SOL: 0.5 m		shift hours		shift leaders		shift hours		watch personnel		shift hours	
SEAS EOL: 0.1 m		16:00 – 04:00 utc =>		A. Thompson		16:00 – 20:00 utc >		Baldwin, Johnson		20:00 – 24:00 utc >	
		04:00 – 16:00 utc =>		S. Traceski		04:00 – 08:00 utc >		Baldwin, Johnson		08:00 – 12:00 utc >	

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Seq# 46

Line Name: MGL15102404

Line Brg : 304.4 °

NAVIGATION

LINE LOGS

DATE: 2015-06-18

JULIAN DAY: 169

Lamont-Doherty Earth Observatory

COLUMBIA UNIVERSITY | EARTH INSTITUTE

CLIENT: Greg Mountain

SURVEY: 3D - NJ

AREA: Offshore New Jersey

DC SOL : -42.3 m

DC EOL : 4.8 m

BSP SOL: 4.5 kts

BSP EOL: 4.6 kts

WEATHER

WIND SOL: E4.3 kts

WIND EOL: SE 9.8 kts

SEAS SOL: 0.5 m

SEAS EOL: 1.0 m

DEPTH SOL : 54.7 m

DEPTH EOL : 24.7 m

FEATHER SOL: -61.4 °

FEATHER EOL: -00.7 °

MAX FEATHER: -61.4 °

NAVIGATION SYSTEM USED: C-Nav3050 - Primary

NAVIGATION SYSTEM USED: SeaPath 200

NAVIGATION SYSTEM USED: POSMV

GRAVITY METER: BMG-II: used, SN210

MAGNETOMETER: GeoMetrics: used

shift hours

shift leaders

shift hours

watch personnel

shift hours

watch personnel

shift hours

watch personnel

16:00 – 04:00 utc => A. Thompson

16:00 – 20:00 utc > Baldwin, Johnson

20:00 – 24:00 utc > Kucuk, Stanley

00:00 – 04:00 utc > Bhatnagar, Newton

04:00 – 16:00 utc => S. Traceski

04:00 – 08:00 utc > Baldwin, Johnson

08:00 – 12:00 utc > Kucuk, Stanley

12:00 – 16:00 utc > Bhatnagar, Newton

SP

UTC

EVENT

COMMENTS

858

13:16

SOL

start of 3D acquisition using NavPoint, GeoEel, Spectra, and Syntrak

1975

15:01

Tail Buoy

Tail Buoy Out

2000

15:04

USS Pump

USS Pump Turned Off, affects TSG, PCO2, and MicroSV

2168

15:21

FRC

FRC and Personel Launched and Bridge Steering

2186

15:23

FRC

FRC Away

2246

15:29

Tail Buoy

Tail Buoy On

2281

15:33

USS Pump

Back Online

2281

15:33

FRC

FRC Back Onboard, Main Lab Steering

4461

19:07

CNAV

Cnav3050 lost corrections for 1 shot - missed shot in recording

5137

20:09

EOL

End of Line

FSP

LSP

Shotpoints

Latitude (N / +)

Longitude (W / -)

858

39° 24' 33.956"

-73° 08' 55.379"

5137

39° 41' 20.462"

-73° 39' 20.235"

NAVIGATION OFFSET APPLIED

NRP - Stern

29.5m

NRP – COS

300.0m

NRP – CNG

531.50m

COS – CNG

231.50m

NRP – CMP

415.75m

Posnet locations & remarks: good - none - intermittent

acoustics

Tailbuoy #1

GOOD

Gun string #1

GOOD

Tailbuoy #2

none

Gun string #2

none

Tailbuoy #3

none

Gun string #3

none

Tailbuoy #4

none

Gun string #4

none

OPERATIONAL

MGL1307.LMN

mg12010.RTCN

SP spacing: 12.5m

line status: Complete

[illegible]

[illegible]

Seq# 049

Line Name: MGL15102572S

Line Brg : 304.4 °

NAVIGATION

LINE LOGS

DATE: 2015-06-19

JULIAN DAY: 170

Lamont-Doherty Earth Observatory

COLUMBIA UNIVERSITY | EARTH INSTITUTE

CLIENT: Greg Mountain

SURVEY: 3D - NJ

AREA: Offshore New Jersey

DC SOL : -5.9 m

DC EOL : -451.6 m

BSP SOL: 4.2 kts

BSP EOL: 4.6 kts

WEATHER

WIND SOL: S 8.2 kts

WIND EOL: W 5.6 kts

SEAS SOL: 0.5 m

SEAS EOL: 0.5 m

DEPTH SOL : 54.1 m

DEPTH EOL : 34.1 m

FEATHER SOL: -46.5 °

FEATHER EOL: -00.3 °

MAX FEATHER: -46.5 °

NAVIGATION SYSTEM USED: C-Nav3050 - Primary

NAVIGATION SYSTEM USED: SeaPath 200

NAVIGATION SYSTEM USED: POSMV

GRAVITY METER: BMG-II: used, SN210

MAGNETOMETER: GeoMetrics: used

shift hours

shift leaders

shift hours

watch personnel

shift hours

watch personnel

shift hours

watch personnel

16:00 – 04:00 utc => A. Thompson

16:00 – 20:00 utc > Baldwin, Johnson

20:00 – 24:00 utc > Kucuk, Stanley

00:00 – 04:00 utc > Bhatnagar, Newton

04:00 – 16:00 utc => S. Traceski

04:00 – 08:00 utc > Baldwin, Johnson

08:00 – 12:00 utc > Kucuk, Stanley

12:00 – 16:00 utc > Bhatnagar, Newton

SP

UTC

EVENT

COMMENTS

860

06:24

SOL

start of 3D acquisition using NavPoint, GeoEel, Spectra, and Syntrak

875

06:25

FSP

reshoot 2572

960

06:34

LSP

reshoot 2572

1240

07:02

FSP

reshoot 2572

1329

07:10

LSP

reshoot 2572

1436

07:21

FSP

reshoot 2572

1580

07:34

LSP

reshoot 2572

1775

07:53

FSP

reshoot 2572

1917

08:06

LSP

reshoot 2572

2483

08:59

FSP

reshoot 2572

2619

09:11

LSP

reshoot 2572

3008

09:45

FSP

reshoot 2500

3700

10:45

LGSP

reshoot 2500

3707

10:45

EOL

end of line

Posnet locations & remarks: good - none - intermittent

acoustics

Tailbuoy #1

GOOD

Gun string #1

GOOD

Tailbuoy #2

none

Gun string #2

none

Tailbuoy #3

none

Gun string #3

none

Tailbuoy #4

none

Gun string #4

none

OPERATIONAL

VESEL POSITION

Shotpoints

Latitude (N / +)

Longitude (W / -)

FSP

860

39° 25' 03.084"

-73° 08' 29.798"

LSP

3707

39° 35' 59.899"

-73° 28' 51.817"

NAVIGATION OFFSET APPLIED

NRP - Stern

29.5m

NRP – COS

300.0m

NRP – CNG

531.50m

COS – CNG

231.50m

NRP – CMP

415.75m

MGL1307.LMN

mg12010.RTCN

SP spacing:

12.5m

line status:

Page 1

Seq# 050

Line Name: MGL15101900I

Line Brg : 124.4 °

NAVIGATION

LINE LOGS

DATE: 2015-06-19

JULIAN DAY: 170

Lamont-Doherty Earth Observatory

COLUMBIA UNIVERSITY | EARTH INSTITUTE

CLIENT: Greg Mountain

SURVEY: 3D - NJ

AREA: Offshore New Jersey

DC SOL : -6.3 m

DC EOL : 1507.0 m

BSP SOL: 4.3 kts

BSP EOL: 4.6 kts

WEATHER

WIND SOL: W 6 kts

WIND EOL: W6.9 kts

SEAS SOL: 0.5 m

SEAS EOL: 0.5 m

DEPTH SOL : 30.8 m

DEPTH EOL : 53.6 m

FEATHER SOL: -17.4 °

FEATHER EOL: 00.0 °

MAX FEATHER: -17.4 °

NAVIGATION SYSTEM USED: C-Nav3050 - Primary

NAVIGATION SYSTEM USED: SeaPath 200

NAVIGATION SYSTEM USED: POSMV

GRAVITY METER: BMG-II: used, SN210

MAGNETOMETER: GeoMetrics: used

shift hours

shift leaders

shift hours

watch personnel

shift hours

watch personnel

shift hours

watch personnel

16:00 – 04:00 utc => A. Thompson

16:00 – 20:00 utc > Baldwin, Johnson

20:00 – 24:00 utc > Kucuk, Stanley

00:00 – 04:00 utc > Bhatnagar, Newton

04:00 – 16:00 utc => S. Traceski

04:00 – 08:00 utc > Baldwin, Johnson

08:00 – 12:00 utc > Kucuk, Stanley

12:00 – 16:00 utc > Bhatnagar, Newton

SP

UTC

EVENT

COMMENTS

3886

12:51

SOL/infill

start of 3D acquisition using NavPoint, GeoEel, Spectra, and Syntrak

3447

13:32

MMO

Powerdown for turtle

3442

13:32

airguns

Mitigation gun on

3386

13:37

airguns

Back to full power

2340

15:11

LSP

Infill lines 1900 and 1828 complete - moving to new infill

2073

15:35

FSP

Reshoot line 1660

1975

15:43

LSP

Reshoot line 1660

1974

15:43

FSP

Start of Infill, Line 1660

1691

16:08

LSP

End of Infill, Line 1660

1690

16:08

FSP

Start of Reshoot Line 1660

16:30

Fire Drill

Fire Drill, Bird Room

1231

16:48

MMO

Powerdown for turtle, LGSP

1226

16:48

Airguns

First SP with Mitigation Gun

1154

16:54

Airguns

First SP, Full Volume

865

17:19

LSP

Reshoot line 1660

865

17:19

EOL

end of line

FSP

LSP

Shotpoints

Latitude (N / +)

Longitude (W / -)

3886

39° 35' 04.896"

-73° 31' 41.230"

865

39° 22' 33.892"

-73° 10' 50.551"

NAVIGATION OFFSET APPLIED

NRP - Stern

29.5m

NRP – COS

300.0m

NRP – CNG

531.50m

COS – CNG

231.50m

NRP – CMP

415.75m

Posnet locations & remarks: good - none - intermittent

acoustics

Tailbuoy #1

GOOD

Gun string #1

GOOD

Tailbuoy #2

none

Gun string #2

none

Tailbuoy #3

none

Gun string #3

none

Tailbuoy #4

none

Gun string #4

none

OPERATIONAL

MGL1307.LMN

mgl2010.RTCN

SP spacing: 12.5m

line status: Complete

[illegible]

[illegible]

Seq# 053

Line Name: MGL15102356

Line Brg : 304.4 °

NAVIGATION

LINE LOGS

DATE: 2015-06-20

JULIAN DAY: 171

Lamont-Doherty Earth Observatory

COLUMBIA UNIVERSITY | EARTH INSTITUTE

CLIENT: Greg Mountain

SURVEY: 3D - NJ

AREA: Offshore New Jersey

DC SOL : 23.2 m

DC EOL : 0.5 m

BSP SOL: 4.5 kts

BSP EOL: 4.5 kts

WEATHER

WIND SOL: E 5 kts

WIND EOL: E 13.6 kts

SEAS SOL: 0.5 m

SEAS EOL: 0.5 m

DEPTH SOL : 54.0 m

DEPTH EOL : 28.2 m

FEATHER SOL: -49.8 °

FEATHER EOL: -01.3 °

MAX FEATHER: -44.6 °

NAVIGATION SYSTEM USED: C-Nav3050 - Primary

NAVIGATION SYSTEM USED: SeaPath 200

NAVIGATION SYSTEM USED: POSMV

GRAVITY METER: BMG-II: used, SN210

MAGNETOMETER: GeoMetrics: used

shift hours

shift leaders

shift hours

watch personnel

shift hours

watch personnel

shift hours

watch personnel

16:00 – 04:00 utc => A. Thompson

16:00 – 20:00 utc > Baldwin, Johnson

20:00 – 24:00 utc > Kucuk, Stanley

00:00 – 04:00 utc > Bhatnagar, Newton

04:00 – 16:00 utc => S. Traceski

04:00 – 08:00 utc > Baldwin, Johnson

08:00 – 12:00 utc > Kucuk, Stanley

12:00 – 16:00 utc > Bhatnagar, Newton

SP

UTC

EVENT

COMMENTS

860

07:46

SOL

start of 3D acquisition using NavPoint, GeoEel, Spectra, and Syntrak

2241

09:53

MMO

Powerdown for turtle

2245

09:53

airguns

Mitigation gun on

2304

09:58

airguns

Guns back to full power

4003

12:27

XBT

Sequence no. 18

5137

14:09

EOL

end of line

FSP

LSP

Shotpoints

Latitude (N / +)

Longitude (W / -)

860

39° 24' 28.239"

-73° 09' 01.932"

5137

39° 41' 12.406"

-73° 39' 27.604"

NAVIGATION OFFSET APPLIED

NRP - Stern

29.5m

NRP – COS

300.0m

NRP – CNG

531.50m

COS – CNG

231.50m

NRP – CMP

415.75m

Posnet locations & remarks: good - none - intermittent

acoustics

Tailbuoy #1

GOOD

Gun string #1

GOOD

OPERATIONAL

Tailbuoy #2

none

Gun string #2

none

Tailbuoy #3

none

Gun string #3

none

Tailbuoy #4

none

Gun string #4

none

MGL1307.LMN

mg12010.RTCN

SP spacing: 12.5m

line status:

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Seq# 064

Line Name: MGL15101372

Line Brg : 124.4 °

NAVIGATION

LINE LOGS

DATE: 2015-06-23

JULIAN DAY: 174

Lamont-Doherty Earth Observatory

COLUMBIA UNIVERSITY | EARTH INSTITUTE

CLIENT: Greg Mountain

SURVEY: 3D - NJ

AREA: Offshore New Jersey

DC SOL : 1.8 m

DC EOL : -13.1 m

BSP SOL: 4.6 kts

BSP EOL: 4.0 kts

WEATHER

WIND SOL: South 19.5 kts

WIND EOL: WSW16.1 kts

SEAS SOL: 1.0 m

SEAS EOL: 1.5 m

DEPTH SOL : 22.1 m

DEPTH EOL : 55.3 m

FEATHER SOL: -51.5 °

FEATHER EOL: 02.4 °

MAX FEATHER: -51.5 °

NAVIGATION SYSTEM USED: C-Nav3050 - Primary

NAVIGATION SYSTEM USED: SeaPath 200

NAVIGATION SYSTEM USED: POSMV

GRAVITY METER: BMG-II: used, SN210

MAGNETOMETER: GeoMetrics: used

shift hours

shift leaders

shift hours

watch personnel

shift hours

watch personnel

shift hours

watch personnel

16:00 – 04:00 utc => A. Thompson

16:00 – 20:00 utc > Baldwin, Johnson

20:00 – 24:00 utc > Kucuk, Stanley

00:00 – 04:00 utc > Bhatnagar, Newton

04:00 – 16:00 utc => S. Traceski

04:00 – 08:00 utc > Baldwin, Johnson

08:00 – 12:00 utc > Kucuk, Stanley

12:00 – 16:00 utc > Bhatnagar, Newton

VESEL POSITION

Shotpoints	Latitude (N / +)	Longitude (W / -)
5130	39° 38' 27.872"	-73° 41' 53.614"
865	39° 21' 46.922"	-73° 11' 33.786"

NAVIGATION OFFSET APPLIED

NRP - Stern	29.5m
NRP – COS	300.0m
NRP – CNG	531.50m
COS – CNG	231.50m
NRP – CMP	415.75m

Posnet locations & remarks: good - none - intermittent

acoustics

Tailbuoy #1	Intermittent	Gun string #1	GOOD
Tailbuoy #2	none	Gun string #2	none
Tailbuoy #3	none	Gun string #3	none
Tailbuoy #4	none	Gun string #4	none

OPERATIONAL

MGL1307.LMN

mgl2010.RTCN

SP spacing: 12.5m

line status: Complete

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Seq# 071

Line Name: MGL15101300

Line Brg : 124.4 °

NAVIGATION

LINE LOGS

DATE: 26-06-2015

JULIAN DAY: 177

Lamont-Doherty Earth Observatory

COLUMBIA UNIVERSITY | EARTH INSTITUTE

CLIENT: Greg Mountain

SURVEY: 3D - NJ

AREA: Offshore New Jersey

DC SOL : -31.4 m

DC EOL : 6.5 m

BSP SOL: 4.5 kts

BSP EOL: 4.3 kts

WEATHER

WIND SOL: E 12 kts

WIND EOL: ENE 15 kts

SEAS SOL: 1.0 m

SEAS EOL: 1.5 m

DEPTH SOL : 22.4 m

DEPTH EOL : 55.5 m

FEATHER SOL: -48.5 °

FEATHER EOL: 02.1 °

MAX FEATHER: -48.5 °

NAVIGATION SYSTEM USED: C-Nav3050 - Primary

NAVIGATION SYSTEM USED: SeaPath 200

NAVIGATION SYSTEM USED: POSMV

GRAVITY METER: BMG-II: used, SN210

MAGNETOMETER: GeoMetrics: used

shift hours

shift leaders

shift hours

watch personnel

shift hours

watch personnel

shift hours

watch personnel

16:00 – 04:00 utc => A. Thompson

16:00 – 20:00 utc > Baldwin, Johnson

20:00 – 24:00 utc > Kucuk, Stanley

00:00 – 04:00 utc > Bhatnagar, Newton

04:00 – 16:00 utc => S. Traceski

04:00 – 08:00 utc > Baldwin, Johnson

08:00 – 12:00 utc > Kucuk, Stanley

12:00 – 16:00 utc > Bhatnagar, Newton

SP

UTC

EVENT

COMMENTS

5134

08:45

SOL

start of 3D acquisition using NavPoint, GeoEel, Spectra, and Syntrak

3492

11:14

p-cable

P-cable failure

3118

11:49

p-cable

P-cable back up

865

15:16

EOL

End of line

FSP

LSP

Shotpoints

Latitude (N / +)

Longitude (W / -)

5134

39° 38' 17.715"

-73° 42' 05.415"

865

39° 21' 34.531"

-73° 11' 45.190"

NAVIGATION OFFSET APPLIED

NRP - Stern

29.5m

NRP – COS

300.0m

NRP – CNG

531.50m

COS – CNG

231.50m

NRP – CMP

415.75m

Posnet locations & remarks: good - none - intermittent

acoustics

Tailbuoy #1

GOOD

Gun string #1

GOOD

OPERATIONAL

Tailbuoy #2

none

Gun string #2

none

Tailbuoy #3

none

Gun string #3

none

Tailbuoy #4

none

Gun string #4

none

MGL1307.LMN

mg12010.RTCN

SP spacing: 12.5m

line status:

[illegible]

[illegible]

Seq# 074

Line Name: MGL15102020R

Line Brg : 304 °

NAVIGATION

LINE LOGS

DATE: 27/06/2015

JULIAN DAY: 178

Lamont-Doherty Earth Observatory

COLUMBIA UNIVERSITY | EARTH INSTITUTE

CLIENT: Greg Mountain

SURVEY: 3D - NJ

AREA: Offshore New Jersey

DC SOL : -7.2 m

DC EOL : -1.1 m

BSP SOL: 4.5 kts

BSP EOL: 4.7 kts

WEATHER

WIND SOL: E 14 kts

WIND EOL: E 15 kts

SEAS SOL: 1.5 m

SEAS EOL: 1.5 m

DEPTH SOL : 53.1 m

DEPTH EOL : 21.6 m

FEATHER SOL: -48.7 °

FEATHER EOL: 01.1 °

MAX FEATHER: -48.7 °

NAVIGATION SYSTEM USED: C-Nav3050 - Primary

NAVIGATION SYSTEM USED: SeaPath 200

NAVIGATION SYSTEM USED: POSMV

GRAVITY METER: BMG-II: used, SN210

shift hours

shift leaders

shift hours

watch personnel

shift hours

watch personnel

shift hours

watch personnel

16:00 – 04:00 utc => A. Thompson

16:00 – 20:00 utc > Baldwin, Johnson

20:00 – 24:00 utc > Kucuk, Stanley

00:00 – 04:00 utc > Bhatnagar, Newton

04:00 – 16:00 utc => S. Traceski

04:00 – 08:00 utc > Baldwin, Johnson

08:00 – 12:00 utc > Kucuk, Stanley

12:00 – 16:00 utc > Bhatnagar, Newton

SP

UTC

EVENT

COMMENTS

866

08:53

SOL

start of 3D acquisition using NavPoint, GeoEel, Spectra, and Syntrak

866

08:53

Prime

SP 866-871

872

08:53

Infill

SP 872-1056

1057

09:10

Reshoot

SP 1057-1636

1637

10:03

Prime

Start of Prime

5137

15:39

EOL

end of line

FSP

LSP

Shotpoints

Latitude (N / +)

Longitude (W / -)

866

39° 23' 33.457"

-73° 09' 56.270"

5137

39° 40' 16.743"

-73° 40' 18.512"

NAVIGATION OFFSET APPLIED

NRP - Stern

29.5m

NRP – COS

300.0m

NRP – CNG

531.50m

COS – CNG

231.50m

NRP – CMP

415.75m

Posnet locations & remarks: good - none - intermittent

acoustics

Tailbuoy #1

GOOD

Gun string #1

GOOD

Tailbuoy #2

none

Gun string #2

none

Tailbuoy #3

none

Gun string #3

none

Tailbuoy #4

none

Gun string #4

none

OPERATIONAL

MGL1307.LMN

mgl2010.RTCN

SP spacing: 12.5m

line status: Complete

[illegible]

[illegible]

[illegible]

Seq# 078

Line Name: MGL15102188

Line Brg : 304 °

NAVIGATION

LINE LOGS

DATE: 2015-06-28

JULIAN DAY: 179

Lamont-Doherty Earth Observatory

COLUMBIA UNIVERSITY | EARTH INSTITUTE

CLIENT: Greg Mountain

SURVEY: 3D - NJ

AREA: Offshore New Jersey

DC SOL : 17.4 m

DC EOL : 30.9 m

BSP SOL: 4.8 kts

BSP EOL: 4.0 kts

WEATHER

WIND SOL: WSW 18 kts

WIND EOL: SW 17.4 kts

SEAS SOL: 2.0 m

SEAS EOL: 1.5 m

DEPTH SOL : 53.1 m

DEPTH EOL : 24.3 m

FEATHER SOL: -47.5 °

FEATHER EOL: -02.2 °

MAX FEATHER: -47.5 °

NAVIGATION SYSTEM USED: C-Nav3050 - Primary

NAVIGATION SYSTEM USED: SeaPath 200

NAVIGATION SYSTEM USED: POSMV

GRAVITY METER: BMG-II: used, SN210

shift hours

shift leaders

shift hours

watch personnel

shift hours

watch personnel

shift hours

watch personnel

16:00 – 04:00 utc => A. Thompson

16:00 – 20:00 utc > Baldwin, Johnson

20:00 – 24:00 utc > Kucuk, Stanley

00:00 – 04:00 utc > Bhatnagar, Newton

04:00 – 16:00 utc => S. Traceski

04:00 – 08:00 utc > Baldwin, Johnson

08:00 – 12:00 utc > Kucuk, Stanley

12:00 – 16:00 utc > Bhatnagar, Newton

Posnet locations & remarks: good - none - intermittent

acoustics

OPERATIONAL

MGL1307.LMN

mg12010.RTCN

SP spacing: 12.5m

line status: Complete

Seq# 079

Line Name: MGL15101204

Line Brg : 124.4 °

NAVIGATION

LINE LOGS

DATE: 2015-06-28

JULIAN DAY: 179

Lamont-Doherty Earth Observatory

COLUMBIA UNIVERSITY | EARTH INSTITUTE

CLIENT: Greg Mountain

SURVEY: 3D - NJ

AREA: Offshore New Jersey

DC SOL : 5133.0 m

DC EOL : 2.5 m

BSP SOL: 4.5 kts

BSP EOL: 4.5 kts

WEATHER

WIND SOL: SW 14.7 kts

WIND EOL: w 15 kts

SEAS SOL: 1.5 m

SEAS EOL: 1.5 m

DEPTH SOL : 20.8 m

DEPTH EOL : 55.4 m

FEATHER SOL: -46.5 °

FEATHER EOL: -00.1 °

MAX FEATHER: -46.5 °

NAVIGATION SYSTEM USED: C-Nav3050 - Primary

NAVIGATION SYSTEM USED: SeaPath 200

NAVIGATION SYSTEM USED: POSMV

GRAVITY METER: BMG-II: used, SN210

shift hours

shift leaders

shift hours

watch personnel

shift hours

watch personnel

shift hours

watch personnel

16:00 – 04:00 utc => A. Thompson

16:00 – 20:00 utc > Baldwin, Johnson

20:00 – 24:00 utc > Kucuk, Stanley

00:00 – 04:00 utc > Bhatnagar, Newton

04:00 – 16:00 utc => S. Traceski

04:00 – 08:00 utc > Baldwin, Johnson

08:00 – 12:00 utc > Kucuk, Stanley

12:00 – 16:00 utc > Bhatnagar, Newton

VESEL POSITION

Shotpoints	Latitude (N / +)	Longitude (W / -)
5133	39° 38' 01.214"	-73° 42' 19.861"
865	39° 21' 18.809"	-73° 11' 59.662"

NAVIGATION OFFSET APPLIED

NRP - Stern	29.5m
NRP – COS	300.0m
NRP – CNG	531.50m
COS – CNG	231.50m
NRP – CMP	415.75m

Posnet locations & remarks: good - none - intermittent

acoustics

Tailbuoy #1	GOOD	Gun string #1	GOOD
Tailbuoy #2	none	Gun string #2	none
Tailbuoy #3	none	Gun string #3	none
Tailbuoy #4	none	Gun string #4	none

OPERATIONAL

MGL1307.LMN

mgl2010.RTCN

SP spacing: 12.5m

line status: Complete